NORTH AMERICAN TECHNOLOGY AND INDUSTRIAL BASE ORGANIZATION

NATIBO

July 2014

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Outline

- **NATIBO Background**
- **NATIBO Focus/Objectives**
- **NATIBO Benefits**
- **NATIBO MOU**
- **NATIBO Working Groups**
- **NATIBO Accomplishments**

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NATIBO Background

- **Joint U.S. DoD/Canadian DND organization that facilitates technology and industrial base efforts between the two Defense Departments**
- **Promote a cost effective, healthy technology and industrial base responsive to the national and economic security needs of the US and Canada**
- **Based on 1985 “Shamrock Summit” pledge by President Reagan and Prime Minister Mulroney**
  - Reduce barriers and stimulate the two-way flow of goods
  - Establish a free exchange of technology, knowledge, and skills involved in defense production

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NATIBO Focus/Objectives

- **Fostering cooperation**
  - By leveraging resources through cost sharing and economies of scale afforded through coordinated initiatives
  - Through facilitating enhanced joint Canada/U.S. activities through collaborating in studies and the implementation of study recommendations
  - Through the raising of issues with relevant bi-lateral committees
  - By ensuring industrial base considerations are addressed during military and/or civilian emergency planning activities
- **Promotion of the North American Industrial Base**
  - Through the coordination and execution Canada/U.S. technology and industrial base programs and policies
  - Through the coordination of technology and industrial base planning and insertion programs
  - By enabling the interchange of technology and industrial base data

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NATIBO Benefits

- **Provides support for an integrated North American Defense Industrial Base that takes advantage of defense and commercial relationships to enable cost effective procurement of military equipment, and ensure secure sources of supply.**

- **Allows for coordinated responses to common areas of concern within the industrial base that will optimize the use of each nation's resources.**

- **Enhances the national security of both nations by promoting the competitiveness of the North American technology and industrial base.**

NATIBO Memorandum of Understanding

- **NATIBO MOU was signed on 30 May 2001**
  - Effectively leverage dollars/resources and reduce redundant efforts through bilateral cooperation on studies and projects relating to the defense technology and industrial base of the U.S. and Canada.
  - Achieve rapid technology insertion and commercialization of emerging technologies that can be used in the manufacture and repair of military weapon systems.
  - Permit a wide variety of work to be accomplished on a single project from paper studies and initial research to technology insertion efforts.

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NATIBO MOU (contd.)

- **Covers NATIB Activities**
  - Coordination of technology and industrial base activities
  - Development/ T&E of demonstrators/prototypes
  - Integration of defense and commercial industrial sectors
  - Technology insertion and industrial base data projects
- **Allows for information exchange, Working Groups and Project Arrangements**
- **Establishes formal Steering Committee to assist users**
- **MOU allows assignment of cooperative project personnel and contracting on behalf of the other nation**
- **Sixteen working groups have been established since July 2001**

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NATIBO Working Groups

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- **Multi-Service Fuel Cell** — **October 2001/February 2011**
- ***Soldier System Technology*** — ***January 2003****
- **Future Fire Control Systems** — **January 2003**
- **Homeland Defense** — **April 2005**
- **Critical Infrastructure Protection** — **January 2006**
- **Infantry Soldier Modernization** — **June 2008/June 2013**
- **Alternative Fuels** — **June 2009**
- ***Autonomous Underwater Vehicle*** — ***July 2010****
- **Munitions** — **August 2010**
- **Undersea Technology Innovation** — **March 2012**

****TOR concluded, term expired, superseded***

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Previous NATIBO Accomplishments

- **1993 Metal Matrix Composites Study**
- **1994 Battery Industry Study**
- **1994 Metal Matrix Composites Insertion Project**
- **1996 Collaborative Virtual Prototyping Study**
- **1996 Ion Beam Processing Study**
- **1997 Ion Beam Processing Insertion Project**
- **1998 Corrosion Detection Technologies Study**
- **1999 Rechargeable Battery Study**
- **2000 Government Technology Infrastructure Website**
- **2001 Biological Detection Systems Technology Study**
- **2001 Collaborative Opportunities in DMSMS**
- **2003 Small Gas Turbine Engines Study**
- **2004 First Responders Study**
- **2012 Barriers to Integration of the North American Defense Industrial Base**

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Back-Up Slides

NATIBO Working Groups – Present and Past

- Undersea Technology Innovation March 2012
- Munitions August 2010
- Autonomous Underwater Vehicle July 2010
- Alternative Fuels June 2009
- Infantry Soldier Modernization June 2008/June 2013
- Critical Infrastructure Protection January 2006
- Homeland Defense April 2005
- Tactical Communication and Info Systems Modeling April 2004
- Med Log Vehicle Replacement March 2003
- Future Fire Control Systems January 2003
- Soldier System Technology January 2003
- Multi-Service Fuel Cell October 2001/February 2011
- Gas Turbine Engine June 2002
- Regenerative Fuel Cell October 2001
- Light Armored Vehicle July 2001

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